

**Remarks**

By the foregoing Amendment, claims 1, 23, and 30 are amended, and claim 29 is cancelled. Applicant respectfully submits that entry of this amendment is proper, as it places the application in condition for allowance. Pursuant to the teleconference with the Examiner on May 12, 2005, Applicant makes these amendments to resolve the objections relating to whether the full breadth of Applicant's previous amendments are adequately disclosed in the specification. No new matter is added by this Amendment. Entry of the Amendment, and favorable consideration thereof, is earnestly requested.

The Examiner has rejected independent claims 1, 23, and 30 under 35 U.S.C. §112, 1<sup>st</sup> paragraph for failing to comply with the written description requirement. Specifically, the Examiner indicates that, while the specification discloses calculating a temperature gradient, it does not disclose controlling the temperatures using the gradient. Accordingly, pursuant to the aforementioned teleconference with the Examiner, applicant has amended claims 1, 23, and 30 to remove this language.

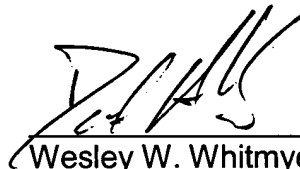
Similarly, The Examiner has rejected independent claims 1, 23, and 30 under 35 U.S.C. §112, 1<sup>st</sup> paragraph for failing to comply with the written description requirement because, while the specification discloses calculating a gradient for particular sets of temperatures, it does not specifically discuss calculating a gradient for sets including temperatures at any of the eight enumerated temperatures. Accordingly, pursuant to the aforementioned teleconference with the Examiner, applicant has amended claims 1, 23, and 30 to recite the specific temperature sets discussed in the specification. Applicant points to the 1<sup>st</sup>, 2<sup>nd</sup>, and 4<sup>th</sup> paragraphs on page 7 of the specification as support for this amendment.

The Examiner has rejected independent claim 29 under 35 U.S.C. 35 U.S.C. §103 as obvious over Schmitz ("MOVPE growth of InGaN on sapphire using growth

initiation cycles”) in view of Burmeister (U.S. Patent No. 3,617,371), and further in view of de Waard et al (U.S. Patent No. 6,373,033) or Stoddard et al (WO 98/35531). For the purpose of expediting prosecution, claim 29 has been cancelled.

It is respectfully submitted that claims 1-17, 19-28, and 30-59, all of the claims remaining in the application, are in order for allowance, and early notice to that effect is respectfully requested.

Respectfully submitted,



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